

## MEETING NOTICE

This months' meeting will be held at Grace Presbyterian Church, 2100 Tice Valley Blvd., Walnut Creek, on August 15th at 8:00 p.m.

The program will be conducted by Don Doughty, W6EEN, 1980 Field Day Chairman. It will consist of a talk and slides, etc.

Northern California Emergency Net:  
Sunday morning at 1000 on 3.920 MHz.

CIVIL DEFENSE  
Emergency Frequency: 146.985



# the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX; 2M REPEATER WR6AHK; 220 REPEATER WR6ARG; MEMORIAL CALL SIGN W6LGW

VOLUME XXVIII

August 1980

No. 8

EDITOR: Chuck Stewart, KB6UC; P.O. Box 23222, Pleasant Hill, Calif. 94523 Phone: 798-9195

President.....	WA6MWU	Chuck Welch	102 Rolling Green	Pleasant Hill	94523	676-5262
Vice President.....	WA6IRZ	Stan Bringer	1920 Gilly Lane	Concord	94518	689-0989
Secretary.....	KA6AHO	Judy Stewart	P.O. Box 23222	Pleasant Hill	94523	798-9195
Treasurer.....	W6CU	Hal Mumford	1271 Walker Ave.	Walnut Creek	94596	934-4728
Emergency Coordin'tr...	W6LKE	Dwayne Eskridge	P.O. Box 5502	Walnut Creek	94596	932-3971
Board Member.....	WA6GON	Doug Smith	1369 Tree Garden Pl.	Concord	94518	unlisted

This Edition is not Copywrited. It is OK to Quote from us provided credit is given. Thank you.

Deadline for next Issue: Articles & Want Ads by August 25, 1980

Next board meeting at: C.C. County O.E.S. building, 50 Glacier Dr., Martinez, August 18, 8:00 p.m.

MDARC GENERAL MEETING  
JULY 18, 1980

Meeting called to order at 8:04 p.m. by Pres. Chuck Welch, WA6MWU.

M.M.S. & P. to accept the minutes of the June 20th meeting with the following addition: the "Outstanding Service" plaque from the Red Cross will be hung in the W6LGW Memorial Station.

Secretary's Report: Cards were read from Florence Thomas & Mickey Young thanking the Club for its contributions and support. A letter was also received from Jerry Boyd, WA6CUP, regarding WR6AHK.

WA6IRZ reported that the August program will be Don, W6EEN, with a report on Field Day complete with slides, etc.

Treasurer's Report: W6CU reported \$549.42 in savings & \$814.11 in checking.

E.C.: W6LKE reports no emergencies.

Dwayne also discussed members interest in ARES/RACES.

Carrier: Everythings fine.

Door Prize: WA6TXM is trying to speed up the signing in at the meetings.

Field Day: W6EEN reports a score of 2875 (plus or minus) and 19,100 to 19,700 points. We should know who won in about a month.

Next meeting W6EEN will bring slides, etc. on Field Day.

Membership: 306. Dues are \$3.00 for the balance of the year.

Public Relations: W6EEN reported that PR is going well. Field Day was covered by 7 newspapers before & 3 after. Three radio stations, KSFO, KFRC, & KNBR, covered the event. As did 2 TV channels.

Public Service: WA6OFI reported that the Walnut Festival will be September 18th, 19th, 20th & 21st. Approximately 40 operators will be needed on the 21st.

Anyone wanting a cap contact Dave, WA6OFI.

3895 Net: K6IMV reports 11-12 check ins per night.

Correction to Net Index in 7-80 Carrier -- the 3895 Net is on at 10:00 p.m.

Youth Committee: The Annual Picnic plans are going fine. The Picnic will be August 23rd, at Civic Park, Walnut Creek. It starts at 9:30am.

Visitors were introduced & welcomed.

Upgrades were: KA6AHO to Tech; KA6DXY to General; KA6GTD to General. And Mori, KN6M, (K6OYE) announced his new call KN6M. Congrats to all.

N6AJV brought up the problem WR6AHK is having with K6POU/Rpt. A lengthy discussion followed. WB6VHW requested that MDARC go on record as showing support for RRRG. This was given by an overwhelming show of hands by the members present.

M.M.S. & P. (35 to 31) to table the matter

untill the monthly Board Meeting.

It was agreed to change the date of the Board Meeting from Monday, July 21st to Tuesday, July 22nd & to change the meeting place to Grace Presbyterian Church.

Business meeting was adjourned with a short break at 9:05 p.m.

Guest speakers Al Gaetano, W6VZT & Doc Gmelin, W6ZRJ then told us "everything we ever wanted to know about antennas, but were afraid to ask". Thanks Al & Doc. Their presence always makes for a lively evening.

Respectfully Submitted,  
Judy Stewart, KA6AHO

\* \* \* \* \*

MDARC BOARD MEETING

JULY 22, 1980

Meeting called to order at 8:07 p.m. by Pres. Chuck Welch, WA6MWU.

Minutes of prevoius meeting were accepted.

Discussion on RRRG followed.

Board members were asked to sign a letter to Bob Richter, W6HOF. (This was later signed by all Board Members). K6IMV requested that the letters to Bob Richter & Wendell Peterson be sent registered mail.

A discussion followed regarding a ballot showing a vote of confidence for RRRG by MDARC.

M.M.S. & P. that the letter as addressed to members of MDARC & ballot requesting a vote of confidence, & the letter to Mr. Bob Richter offered by the MDARC Board of Directors be approved & authorize the Secretary to mail as directed.

WA6NTG reported on RRRG. He reported on the upgrading of WR6AHK.

W6NKF reported on his meeting with Jay Watson. According to Don, Mr. Watson stated that a repeater which was not on the NARC list would not be allowed to operate from his site. W6NKF requested that a copy of the above mentioned letter accompany the copy of the new NARC list to go to Jay Watson.

WA6MWU made a proposal to amend the MDARC constitution to make RRRG Chairman a Board Member.

M.M.S. & P. to table further repeater discussion at this time.

A short recess was called at 9:03 p.m.

Acting Secretary,  
Norma Davis, KA6EBT

WA6MWU called for executive session of the Board.

MDARC went on record as accepting the resignation of Joe Campbell, KD6DY, as a Board Member for personal reasons.

Contd. on page #11

## HR REPORTS

"The World of Amateur Radio", the W6AQ/ARRL film, is now available to clubs on a free-loan basis through Modern Talking Pictures Service, 5000 Park Street North, St. Petersburg, Fl. 33709. Playdate requests should include a first choice & alternates.

A Fascinating Film is available to Amateur groups from Cubic. It describes a "Buck Rogers/Star Wars"-type \$20-million Air Combat Maneuvering Range/Instrumentation system designed by Cubic Defense. "ACMR," narrated by former astronaut Wally Schirra, is available from Gary Pierce, Cubic Communications, 305 Airport Road, Oceanside, California 92054. Include a list of upcoming meeting dates for scheduling.

Military use of amateur & broadcast as back-up communications links during an all-out war situation is proposed in the June 23rd issue of Aviation Week. Noting Amateur Radio's excellent performance record during natural disasters, the author of "U.S. Seeking Better Command Control Survivability" says his department plans to study a number of alternatives to the established military communications links for possible use.

\* \* \* \* \*

AUTO CALL---ARRL REPORT---Vic Clark, W4KFC

Comments on profanity/obscenity petitions: ARRL, commenting upon petitions for rule making which seek to control recent increases in the use of profanity & obscenity on amateur repeaters, calls the FCC's attention to the establishment of a current study of this problem area by an ARRL special committee & recommends that the perpetrators of such transmissions, rather than the innocent repeater operators, be held responsible. (In this connection, I'm reminded of the occasional attempt to justify "mild profanity" on the basis of its more frequent use in television programs. However, one might question the wisdom of using TV fare as a model for our behavior. Should we also drive our cars like they do on TV? -- Our transmissions on repeaters are heard regularly in hundreds of homes &, particularly in the Washington area, by individuals whose support may prove critical to the future of the amateur radio service.)

\* \* \* \* \*

## Ham Radio Outlet

999 Howard Avenue  
Burlingame, CA 94010

(415) 342-5757

Hours: 10 AM to 5:30 PM Monday-Saturday

HAM RADIO OUTLET  
999 HOWARD AVENUE  
Burlingame, CA 94010

2811 Telegraph Avenue  
Oakland, CA 94609  
(415) 451-5757

### IN STOCK

Kenwood TS180S/DFC  
SPRING SPECIAL \$999.95  
w/free SSB filter

New ARC Deviation Meter  
On Sale \$99.95

Check w/us for other items  
TR2400  
TR7800  
TR9000

OUR ONLY BUSINESS IS HAM RADIO!

STORE HOURS: 10 AM TO 5:30 PM  
Monday thru Saturday

HAM RADIO OUTLET STORES  
HAVE THE LARGEST  
AMATEUR RADIO INVENTORY  
IN NORTHERN CALIFORNIA



## The President's Corner

On July 22, 1980 the MDARC Board of Directors finally took formal action in the "repeater War". All members should have received a copy of the letter to the MDRA with a poll of the membership attached. If you have not yet filled it out & sent it in, please do so today. We hope to have the opinion of every member. The reason for giving your name & call is to count Club members only & to avoid duplication.

Let us all hope that this action will settle a long standing controversy. Lets all forget past differences & work together for the good of Amateur Radio.

It was with great reluctance that we accepted the resignation of Joe Campbell, KD6DY, as a MDARC Director. His ideas & opinions have been invaluable to the Board & to the Club. We hope he will continue to be active as an opinion leader in MDARC.

73,

Chuck Welch, WA6MWU

\* \* \* \* \*

## FIELD DAY - 1980

Well, FIELD DAY 1980 is now history - and now the waiting begins. The logs have been duped and submitted to ARRL headquarters, the towers, rigs, coax, barbecues, and a myriad of other things returned (in most cases to their rightful owner). And the waiting continues.

Publicity in the print media was outstanding with some eight separate articles appearing in the local and metropolitan newspapers. A mention was had on the morning shows of three am radio stations, and two TV stations took footage of our setup (none has aired yet however). And too, the 55 regulars who set up and manned (or is it personed) the eight positions were joined by in excess of 125 visitors to the mountain top. Even the chief ranger was telling our story. It was a good day for ham radio, but the waiting continues.

Our logs show some 865 CW Q's and 1812 fone Q's, which when combined with the bonus points give us a point score in excess of 19,000 points. The highest previous score is 16,237 points. There may be others who did even better than we, but until all the logs are submitted, ranked and verified we don't know whether we won or were an also ran.

We do know that most everyone put out 100 plus percent and a super time was had by all. And the waiting continues.

Don, W6EEN

## MDARC ANNUAL PICNIC

The Club picnic is planned for August 23rd, the location is Civic Park in Walnut Creek. Civic Park is located at the corner of Civic Drive & North Broadway. Parking lot entry is located on Civic Drive.

We will assemble at the park at 9:30 a.m. & begin the day with a transmitter hunt at 9:45 a.m. The T-hunt will be on a 2 meter frequency still to be determined.

Everyone should bring their own food & bar-b-que. The Club will supply the watermelons & the soft drinks.

This is traditionally a family affair, therefore tots, teens, & the oldsters of the Club should plan on this once a year affair to come out & have fun.

73's

Your Youth Encouragement Chairman  
Scott Miles, WB6PQM  
934-6081

\* \* \* \* \*

ATTN: MOBILE HAMS

## VOLT-I-CATOR®

END BATTERY ANXIETY

Plugs into your cigarette lighter to test

- ☐ Battery ☐ Voltage Regulator
- ☐ Alternator

### MINI DIAGNOSTIC METER

- ☐ Shop accuracy in precision instrument
- ☐ Easy to read color coded dial Swivels for easy viewing
- ☐ Rugged case—guaranteed against defects
- ☐ Designed for any 12 volt negative ground system
- ☐ Simple instructions included



OVER 100,000 SOLD

\$16.95

\$2.00 Shipping and Handling  
1 year guarantee  
CA add 6% tax

Never again get stuck with a dead battery. Know in advance if your battery is weak... if your alternator is undercharging... if your regulator is overcharging. Avoid costly—and dangerous—breakdowns.

**J&J Enterprises** W6HSY 341  
P.O. Box 18 • Grass Valley, CA 95945



\* \* CLASSIFIED \* \*

FOR SALE:

Wilson 6 element tri-bander.  
New in box ..... \$185.00/offer

Bill, WB6NMU 707-745-6200

FOR SALE:

Curtis EK-430 Electronic Keyer  
w/ ham key paddle .... \$125.00/best offer

Scott, WB6PQM 943-6081

FOR SALE:

10 GHZ X-band goodies. Much wave guide,  
radar antenna, sig gen & panaramic rcvr.  
wave meters, isolators, "T's", klystrons,  
magnatrons.

Everything goes for .... \$600.00

Roger, WD6CLZ 916-933-3235

FOR SALE:

Sears 8" tilt arbor table saw, complete.  
3/4 HP motor .... Make offer

QST - 1958 to present -- also, several  
years of Ham Radio .... Call

Ken Durkee, K6OE 283-6622

\* \* \* \* \*

HR REPORT

U.S. Amateur Population Swelled to 385,625  
licensees at the end of June, an increase of  
1,837 from the start of the month. FCC statis-  
tics go on to show that Amateur Radio has  
experienced twice as much growth (12,583 new  
licenses issued) in the first six months of  
this year as it did in all of 1979 (6,119 new  
licenses). June's increase, in fact, nearly  
equals the 2,401 licenses issued between April  
and December of last year!

\* \* \* \* \*

WESTLINK

ARRL National Convention...

More than 3,000 amateurs from all over the  
world gathered in Seattle for the ARRL Annual  
National Convention July 25-27th.

Banquet speaker was NBC News Correspondent  
Roy Neil, K6DUE. During his talk Roy paused  
to pay tribute to the amateurs who have de-  
voted themselves in the Mt. St. Helens disas-  
ter and especially the two hams who gave their  
lives in the cause of amateur radio.

\* \* \* \* \*

\* \* \* \* \*

# ComputerLand®

## ComputerLand®

### ComputerLand®

#### ComputerLand®

#### ComputerLand®

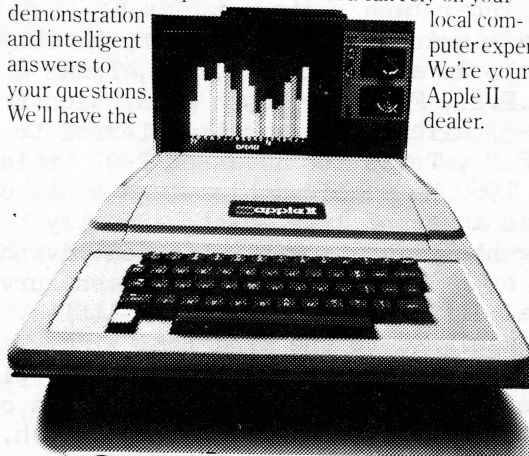
## How to buy a personal computer.

There's only one smart  
place to buy a personal  
computer: from your local  
computer expert.

Look to your Apple® II  
dealer for efficient product  
demonstration  
and intelligent  
answers to  
your questions.  
We'll have the

software and peripherals  
you want in stock. And  
we'll be on hand when  
you need advice and  
service after the sale.

You can rely on your  
local com-  
puter expert.  
We're your  
Apple II  
dealer.



## ComputerLand®

OF WALNUT CREEK  
1815 Ygnacio Valley Road  
Walnut Creek, CA 94598  
(415) 935-6502

See Russ-KA6BPN

## NEWS FROM DOWN SOUTH

### THE SOUTHERN CHAPTER

By: Jerry, WA6CUP

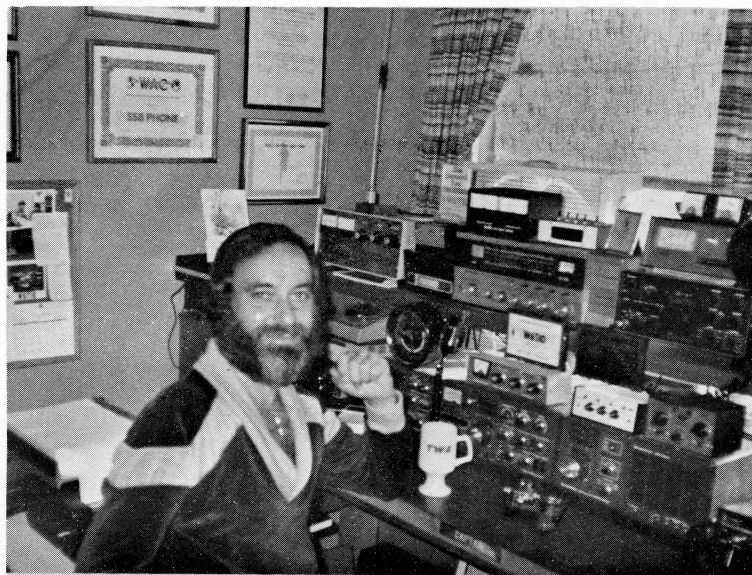
This month's featured Southern Chapter member is Bob Sackett, W6TIO. Bob was badgered by this writer until he finally provided some background information for this article. His wife Betty, WA6SMF, said that when he finally sat down to jot down some of the highlights of his life & career in ham radio she thought he was going to write a book. As it turns out, Bob provided no less than thirty-two items for inclusion in this article. If I don't include most of them he'll probably punish me by adding an extra mile or two to our next long distance run.

One point Bob forgot to mention is that he is the senior Captain of the Southern Chapter. He is a 42 year old native of Syracuse (which only he can pronounce properly) New York. Bob was exposed to amateur radio as a youngster while attending schools in New York. He graduated from St. Lucy's Academy in Syracuse in 1955 & was class valedictorian. He attended St. John Fisher College in Rochester on a scholarship but was forced to withdraw after a year for financial reasons. Bob enlisted in the Air Force & while awaiting entry in the aviation cadet program (pilot training) spent time in the radio operator training school in Biloxi, Miss. Bob quickly increased his code proficiency to 25 w.p.m. & was licensed as a novice as KN2KXD. While assigned as a radio operator at Bergstrom A.F.B., Texas he upgraded to general (K5RXU). While stationed there Bob upgraded the base MARS station & established a tactical inter-base radio net.

Upon admission to pilot training he attended flight schools at Lackland A.F.B., Texas & Graham A.F.B., Florida. Upon graduation from T-34 & T-37 aircraft he was transferred to Reese A.F.B., Texas for advanced T-33 training. In early 1960 he received his wings & his commission as a second lieutenant. Shortly following his graduation he attended advanced training on B-47 aircraft & wilderness survival at several different Air Force facilities. He was then assigned to the 22nd Bomb Wing, March A.F.B., California, was promoted to B-47 pilot & to first lieutenant. With the move his call changed to WA6OPB. While stationed at March, Bob met & married Betty, a school teacher from Wisconsin who had moved to California to escape the cold weather.

Bob, having served in assignments in Guam & Maine (WA1AKB) was promoted to Captain & assigned as pilot of B-52-G series bombers. Shortly following the birth of daughter Melanie in 1963, he left military service & was employed by Trans World Airlines, based in Los Angeles. Bob has flown with TWA since that time as a second officer, co-pilot, & Captain in command.

His ratings include multi-engine commercial pilot in Boeing 707 & 727 aircraft as well as co-pilot in Lockheed L-1011's which he currently flies on either the L.A.-Boston or L.A.-Washington D.C. runs. He is presently next in line for Boeing 747 school.



Bob, who lives in Mission Viejo, has an A.A. degree in Math & Physics from Saddleback College & B.A. degrees in French & History from the University of California, Irvine. His amateur radio interests are numerous. He is past president of the South Orange Amateur Radio Association & is currently trustee of the club's 2 meter & 220 Mhz repeaters. In addition to 2 meter (Yaesu FT-221), 220 (Midland 13-513), 450 (ICOM IC-31) equipment & the home QTH. Bob runs a Kenwood TS-820 S with external V.F.O. His signal is enhanced by an FL-2100B into a TH3-MK3 tri bander. This low band combo has earned him DXCC, WAC, & WAS. His 75 meter checkins are via a multi-band dipole antenna. Bob has 2 meter, 220, & 450 mobile capabilities as well. Almost forgot to mention that his TRS-80 computer with 32K of memory (double disks & printer) is equipped with a Macrotronics RTTY interface.

In addition to amateur radio & computers Bob enjoys long distance running, reading Isaac Asimov books (he has 121 in his collection) & collecting premium California Cabernet Sauvignon wine (120 bottles).

Well Bob, I got most of it in but they'll probably have to print it in two parts.

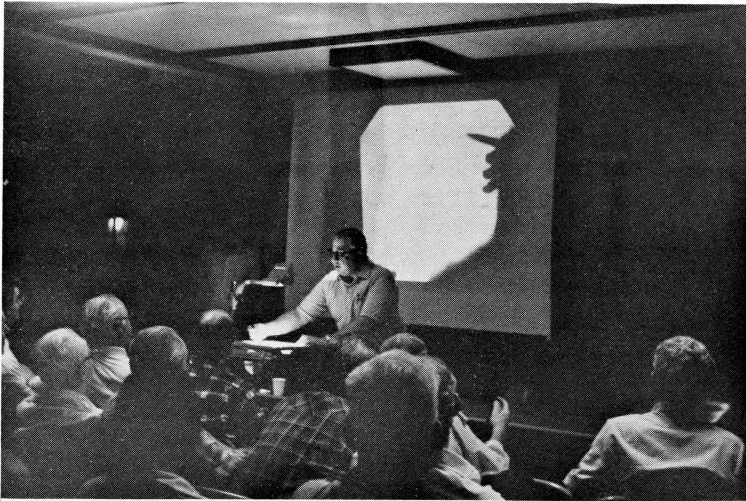
See you next month

73 Jerry

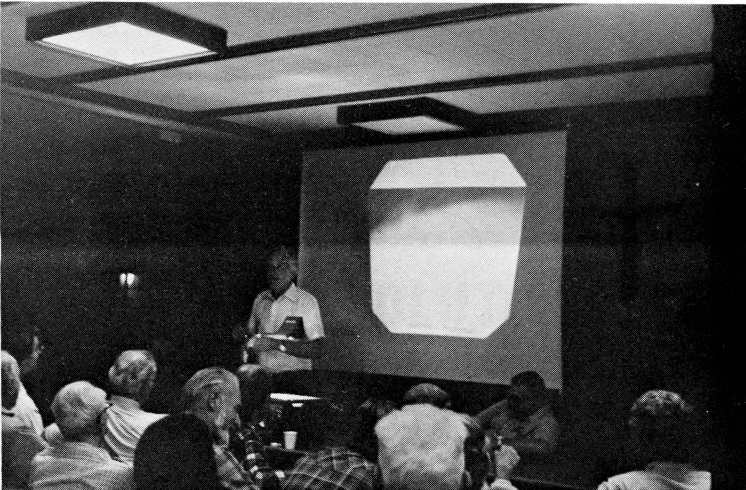
\* \* \* \* \*



MDARC GENERAL MEETING  
July 18, 1980



Doc Gmelin, W6ZRJ



Al Gaetano, W6VZT



Members in attendance.

CENTRAL CALIFORNIA RADIO COUNCIL

The FCC Responds

In response to the CCRC's appeal to the San Francisco Field Office of the Commission, in regard to the malicious interference to local repeaters, the following response was received on July 18:

On May 22, 1980, an Engineer and a Technician from the FCC's San Francisco Field Office were investigating complaints of improper operation by users of the "Grizzly Peak" Amateur Radio Service repeater station WB6AAE/R. At approximately 12:30 a.m. they were monitoring the transmissions of a female radio operator who identified herself as "SHAWNA," and was using a fictitious call sign. Through the use of mobile direction finding equipment it was determined that the location of the transmitting station was Sebastopol, California. The Amateur Radio station at the located address was inspected immediately. The operator of the station is the holder of a Novice Class license. She has been issued an Official Notice of Violation alleging that she violated the following FCC Rules - Section 97.7, Section 97.84, and Section 97.121.

On May 28, 1980, an Engineer and a Technician from the FCC's San Francisco Field Office were investigating complaints of improper operation by the users of the "Grizzly Peak" Amateur Radio repeater station WB6AAE/R. At approximately 9:06 p.m. a signal was observed on the input frequency of that repeater (146.22 MHz) which was not being identified by transmission of an assigned call sign. The unidentified station was transmitting Morse Code. Through use of mobile direction finding equipment the source of the transmissions was found to be in Stockton, California. The Amateur Radio station at the located address is licensed to an Amateur Extra Class licensee. He has been issued an Official Notice of Violation alleging that he violated the following FCC Rules - Section 97.84 (a), Section 97.123, and Section 97.125.

The Regional Director of the FCC states that one of the above operators lost his license and the other operator's case is pending.

\* \* \* \* \*

KIU NET

Kenwood International User's Net meets each Sunday at 2000 UTC on 14.320 MHz for an exchange of information. Owners and prospective owners are encouraged to participate. N8RT net control.



## HR REPORT

WB6LHB's License Was Finally Revoked by the FCC effective June 16th, as a result of his conviction in January, 1979, for use of abusive and profane language on the air. In its long-awaited revocation order the Commission cited a number of other Commission actions involving profanity on the air, and even included a few of the four-letter words monitored during the operations of "W6JAM" (HRR 240).

Freedom To Listen to radio communications would be drastically curtailed by a new bill just introduced in the House of Representatives. HR-7747, by Rep. Richard Preyer (D - North Carolina) and several co-sponsors, would "prohibit the unauthorized reception of private radio communications." By prohibiting reception this new bill goes much further than Section 605 of the Communications Act, which is generally interpreted to ban the divulging of the content of private radio communications. A very timely and interesting discussion of Section 605's meaning by K1VR, himself an attorney and president of a company dealing in home satellite receiving stations, appears in the just-out August CQ.

Pressure to ban reception of various radio services has been around for a long time, most recently in connection with radar speed monitor detectors. Now pressure is coming from satellite TV distributors, worried that do-it-yourselfers will cut into their revenues. The Common Carrier Association for Telecommunications has petitioned the FCC to criminally prosecute and fine W2NSD and several others for 73's publishing of an article last summer on MDS (Multipoint Distribution Systems). In California, National Subscription Television is suing a dozen or so suppliers of allegedly illegal satellite TV decoders.

HR-7747 has been referred to the House Committee on Interstate and Foreign Commerce and Judiciary for further action.

"AMATEURADIO" Is ARRL's attractive new monthly newsletter for public officials and other decision makers not already acquainted with the Amateur service. The just-out 4-page premier issue has an introduction by League President W2HD, plus short pieces on the ARRL, Amateur space accomplishments, Amateur participation in the October 3, 1979, Hartford, Connecticut, tornado emergency, WARC, and W1UED's Washington role.

A New ARRL Repeater Directory is now being prepared, so repeater owners & operators should be registering their machines before the Nov. 1 deadline. An SASE to ARRL in Newington will bring a form CD 240 for registration.

## MDARC FINANCIAL REPORT

January 1, 1980 thru June 30, 1980

On hand Jan. 1	+ \$882.17
Receipts thru 6-30-80	
ARRL membership	128.00
Auction	1,296.25
Christmas Party 1979	124.18
Donations	587.00
Dues	1,210.00
Education	129.85
Interest	14.91
Nametags	12.00
Washington Birthday	154.00
Misc.	52.24
	+ 3,708.43

Expenses thru 6-30-80	
ARRL membership	117.50
Auction	1,074.24
Carrier	597.75
Christmas Party 1980	100.00
Donations	380.00
Door Prize Supplies	69.43
Education	112.80
Field Day	35.05
Treasurer's stamps	12.75
Nametags (incl. silent keys)	19.50
P.O. Box rental	16.00
Roster printing (incl. 75.00 post.)	405.63
Speaker Dinners	11.43
Washington Birthday	171.25
Misc.	121.41
	- 3,244.74

On hand June 30, 1980	\$1,345.86
-----------------------	------------

- - - - -	
Savings Account	\$549.42
Checking Account	796.44
	\$1,345.86

\* \* \* \* \*

## AUTO CALL

Complaints about amateur-to-amateur interference have tripled compared to the volume received three years ago, according to FCC's PRB chief. While such complaints are a quite small percentage of the total received by the FCC, such a jump is a cause for real concern.

The Spanish version of the element 2/3 combination exam is now available, Personal Radio Branch (PRB) chief John Johnston advised recently. The code test is only in English. This combination element 2/3 written test (English or Spanish) is available only to persons who have no U.S. amateur license at the time they appear for the examination. Other Spanish language elements will be made available as soon as possible.

## WESTLINK

On Monday, July 21st amateur radio came to the aid of a sailor stricken at sea. Early that morning a seaman aboard the tanker Montpelier Victory, cruising some 300 miles southwest of San Diego California, suffered what appeared to be a heart attack. Attempts were made by the ships radio officer to contact the U.S. Coast Guard on the maritime channels but they were out of range. The radio officer also being an amateur with a call sign of WA5VGD then turned to his amateur equipment. He established contact with Don Herring, W6CKC. Don was able to contact a doctor with the Public Health Service in San Pedro. Information was relayed to the ship for emergency treatment of the victim. Don also contacted another doctor who subsequently went to the ship to take care of and accompany the victim to shore. Don Herrings quick work may have saved a mans life.

\* \* \* \* \*

The Carrier has something for everyone. Even those who look for mistakes (like Perky).

\* \* \* \* \*

## \*\*\*NETS\*\*\*

Net	Frequency(MHz)	Time(UTC)
W7PHO Family Hour	14.255, 14.250	1500
W7PHO Family Hour	21.345	2330
W7PHO Family Hour	14.225	2300
W7PHO & WA2FIJ	21.320	2330
Afrikaner Group	21.355	1700
DX to DX Net	21.280 (MWF)	1730
Triple H Net	7.250	0900
40-Meter DX Net	7.180, 7.080(Su)	0200
75-Meter DX Net	3.795 (SSu)	0630
10-Meter DX Net	28.510	
P29JS Net	14.220	0630
Pacific DX Net	14.265 (TuSa)	0600
Arabian Nights	14.250 (F)	0500
WA2NHE Net	14.280	2200
WA2NHE Net	21.275	1800
National Novice DX	28.105 (SSu)	1500

\* \* \* \* \*

## ARNS

There is one thing you can do better than anyone else in the world--  
Read your own handwriting.

\* \* \* \* \*

# AZDEN®

## REVOLUTIONIZES THE STATE OF THE ART MICROCOMPUTER CONTROLLED

**NEW!**



2 METER FM TRANSCEIVER

**NOW AVAILABLE!!**

PCS-2800 10-meter FM transceiver 28-30 MHz with all features of PCS 2000. 10 watts output, selectable simplex or + 100 KHz offset.

Introductory Price \$299<sup>00</sup>

NOT \$550.00

**SPRING  
SALE**

**\$299<sup>00</sup>**

REG. \$369.00



COMPARE THESE FEATURES  
WITH ANY UNIT AT ANY PRICE

# SHAVER RADIO, INC.

1378 S. BASCOM AVE SAN JOSE, CALIF  
408 998-1103

## CLASSROOM CORNER

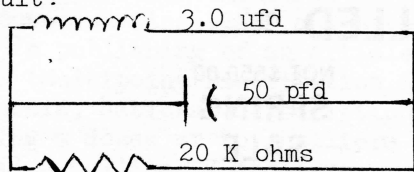
by Dick Bash - KL7IHP

This is the first time this column has appeared & I hope you'll find some benefit from it. What I want to accomplish here is to present you with a column where we can discuss the theory behind some of the material the FCC is basing its questions on. Each month I will pick a subject from either the General, Advanced, or Extra Class exams, elaborate on it & try to show some way for you to apply this knowledge to your career as a ham. Admittedly some of the material is just put on exams to test your general knowledge & some is of little practical value, but we'll muddle our way along & cover those areas too. Your comments are welcome.

This month we'll turn our attention to an area listed on the F.C.C.'s new syllabus for the Advanced Class written examination: the "Q" of circuits. Details on this subject can be found on page 130 of ELECTRONIC COMMUNICATION-4th edition by Robert L. Shrader (published by Mc Graw-Hill, 1980). I will refer to Shrader's most of the time, since this text is actively used by the Commission for preparing the exams you & I take. It is obtainable at most bookstores for \$19.50 or through this writer.

Let's examine a problem regarding the determination of the "Q" of a L-R-C resonant circuit & see what we have to do to solve the problem & how we can use the information.

Suppose you have the following circuit. At a frequency of 21.192 MHz what is the Q of the circuit?



To begin with we should know that the term Q is used to indicate "quality". A coil would have a high value of Q if it had zero resistance & a capacitor would have a high Q if it had no skin effect losses, losses in the leads, or internal resistances. A circuit has a high Q when higher currents will flow through the circuit at resonance. Higher Q means greater selectivity.

In a parallel circuit the formula for finding Q when at resonance is:

$$Q = \frac{R}{\sqrt{L/C}}$$

where:

R = resistance in ohms

L = inductance in microhenrys

C = capacitance in microfarads

By inserting our values into the formula (after changing picofarads in microfarads) we

get this:

$$\begin{aligned} Q &= \frac{20,000}{\sqrt{3.0/0.000050}} \\ Q &= \frac{20,000}{\sqrt{60,000}} \\ Q &= \frac{20,000}{244.9489743} \\ Q &= 81.64965808 \\ Q &= 82 \end{aligned}$$

We can see from the formula that if we wish to increase the Q of this circuit, all we have to do is to decrease the inductance or increase the capacitance.

Circuits of this description can be used in RF tuned circuits in amateur radio receivers or a filter circuit that required a high Q value.

In a series circuit, the formula is the inverse of the above & thus we have a way to more easily remember. In actuality, you wouldn't memorize these formulas but would look them up if you needed them.

I would like to receive from you, the readers, topics you would like discussed in the column. Please confine the areas to those listed in the F.C.C. syllabus (also shown in the earlier issues this year of all the ham magazines).

### THE FINAL EXAM

Are you a contester or DX'er? Do you need those additional frequencies the Advanced or Extra Class licensee has?

Bash Educational Services now has THE FINAL EXAM updated for the Advanced & Extra Class manuals to cover the material on the new FCC tests. These manuals are available at The Base Station in Concord, Ham Radio Outlet in Oakland or Burlingame, Hobbi-Tronics & Quement Electronics in San Jose. If you think the cost of the manual is high (\$9.95), what do you think it costs you to take the test & fail it? Get the best test guide in the country & upgrade NOW!

Mail orders, please add \$1.25 for handling.

Dick Bash - KL7IHP

BASH EDUCATIONAL SERVICES

P.O. Box 2115

San Leandro, California 94577

Phone: 415-352-5420



Contd. from page 2 - Board..

Meeting was called back to order at 9:22 pm.  
WA6MWU reported to the membership of Joe Campbells resignation.

M.M.S. & P. to cover the cost of mailing the ballots to the members.

A letter was presented from Jerry Boyd, WA6CUP, supporting the RRRG.

WA6MWU gave a copy of the insurance policy to each Board Member.

A discussion followed regarding the coverage which this policy offered.

Joe, KD6DY & Paul, N6DN were appointed to check into the coverage.

A special Board Meeting was scheduled for August 4th, 8 pm. at E.O.S. to make a final decision regarding the insurance.

N6DN reported on the Clubs tax exempt status. The Secretary of State says we are a public benefit organization.

Treasurer's Report: Savings \$549.42; Checking \$765.48.

The semi-annual financial summary was submitted by W6CU.

M.M.S. & P. to pay dues for CCRC.

Door Prize: WA6TXM reported \$183.33 in the prize fund.

Membership: 307.

Public Relations: Ham Radio Week went very well. We are getting some good publicity. The entry has been made to ARRL for "Club of the Year" award.

Public Service: WA6OFI reported that the Walnut Festival will be September 18, 19, 20, & 21st. The parade will be on the 21st, about 40 operators will be needed.

There was discussion regarding a possible donation to the club from the Festival.

Social Chairman: Someone is still needed to take WA6ODA's place.

W6IKE reported on changes being made with regard to the E.C. sections. Dwayne has been appointed by the ARRL as District E.C. covering the East Bay.

3895 Net: K6IMV says everything is going well. The correct time is 10:00 p.m. for the net. The newest member, thanks to Parky is SMØHEP.

Meeting adjourned at 11:03 p.m.

Respectfully submitted,  
Judy Stewart, KA6AHO  
Secretary

\* \* \* \* \*

A Frequency Spectrum Chart is available free to any amateur or SWL who requests one from John Cunningham, WB4JUN, Radio Wholesale, 2012 Auburn Ave., Columbus, Ga. 31906. A 15¢ stamp is appreciated.

## THE BASE STATION

Azden PCS-2000 Synthesized 2M Mobile  
WAS \$370.00 NOW \$299.95 SAVE \$70.00

Tempo S-1AT 2M Synthesized Hand Held 1.5W w/TTP  
WAS \$400.00 NOW \$289.95 SAVE \$110.00

Tempo S5T 2M synthesized Hand Held 1 or 5 Watt w/TTP  
WAS \$400.00 NOW \$339.95 SAVE \$60.00

Tempo S2AT 220HZ Synthesized Hand Held 1.5W \$399.95

MFJ "ProFessor Morse" Keyer/CW Trainer \$149.95

Henry IKD-5 80-15 Amplifier  
Reg. \$695.00 SALE \$495.00 SAVE \$200.00

A E A Morse Matic Deluxe Keyer/CW Trainer \$199.95

Dentron MLA-2500 Deluxe Amplifier w/Meters  
Reg. \$1300.00 SALE \$1099.00 SAVE \$200.00

Dentron Clipperton L Amplifier  
Reg. \$700.00 SALE \$179.95 Save \$20.00

Yaesu FT 101 ZD 160-10M Digital XCVR  
Reg. \$942.00 SALE \$799.00 SAVE \$143.00

Kenwood R-1000 BCB-30MHZ SWL RCVR  
\$495.00

Support your local Ham Store  
Save Time and Gas  
Lots of Free Parking  
SHOP IN CONCORD

## The Base Station

2101 Pacheco St. Concord, CA 94520

(415) 685-7388

\*\*\*\*\*NOTICES\*\*\*\*\*

Ballots-- repeater conflict:

Ballots received through August 2, 1980, from members in good standing, tally as follows: 88 for; 1 against.

Complete tally will be presented at the August 15th meeting.

Correction-- Net Index List:

Please note correction to Net Index list (Carrier, 7-80, pg.5) 3895 Net is held at 10:00 p.m.

Membership Certificates:

Membership certificates will be available at the general meetings in the near future.

Walnut Festival:

Anyone wanting to assist with the Walnut Festival contact Dave Greenhill at 686-6657.

Social Chairman:

Dolores, KA6AOC, has accepted the appointment as Social Chairperson for the remainder of 1980.

\* \* \* \* \*

A Note of Thanks

Most of the membership who attend the General Meetings know George Roush, WB6OFH, the Clubs' photographer. And the members who cannot attend have seen his work in the Carrier and the Roster.

George it seems now has such a work load that he is unable to continue as club photographer at present.

I, as editor, wish to publicly thank George for his fine work and help during the last two years.

The Carrier, and I feel, the membership wish him well in his new venture.

Thanks again,

Chuck, KB6UC

\* \* \* \* \*

KB6UCs' Krazy Quiz

If an antenna is equal to  $1/2$  its wave length plus 1.

What is it's wavelength?? (ans. next mo.)

\* \* \* \* \*

$$\begin{aligned} L &= \frac{\lambda}{2} + 1 \\ \lambda &= 2L - 2 \end{aligned} \quad \left. \begin{aligned} L &= \frac{3}{2} \lambda \\ \lambda &= \frac{2}{3} L \end{aligned} \right\} \text{false assumption}$$

$$\lambda + 2 = 2L$$

From:  
Mt. Diablo Amateur Radio Club, Inc.  
P.O. Box 23222  
Pleasant Hill, Calif. 94523

Affiliated with the ARRL  
Affiliated with the American Red Cross  
Member: Amateur Radio News Service

**FIRST CLASS MAIL**

